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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/903,520	07/11/2001	Avi Ashkenazi	10466/83	1093
35489	7590 08/11/2005		EXAMINER	
HELLER EHRMAN LLP			BASI, NIRMAL SINGH	
275 MIDDLEI MENLO PAR	FIELD ROAD K, CA 94025-3506		ART UNIT PAPER NUMBER	
	,			
			DATE MAILED: 08/11/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	- 9
Office Action Summary		09/903,520	ASHKENAZI ET AL.	/
		Examiner	Art Unit	
		Nirmal S. Basi	1646	
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet w	ith the correspondence address -	Hate
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, to period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by streply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a re. a reply within the statutory minimum of thirderiod will apply and will expire SIX (6) MON statute, cause the application to become AE	eply be timely filed by (30) days will be considered timely. THS from the mailing date of this communications (35 U.S.C. § 133).	ation.
Status				
1)□	Responsive to communication(s) filed on 1	19 May 2005.		
2a)⊠		This action is non-final.		•
3)	Since this application is in condition for all closed in accordance with the practice und			; is
Dispositi	ion of Claims			
	Claim(s) <u>39-47 and 49-51</u> is/are pending ir 4a) Of the above claim(s) is/are with	· i		
5)□	Claim(s) is/are allowed.			
	Claim(s) <u>39-47 and 49-51</u> is/are rejected.			
	Claim(s) is/are objected to.			
8)[_]	Claim(s) are subject to restriction ar	nd/or election requirement.		
Applicati	on Papers			
9)	The specification is objected to by the Exar	miner.		
10)	The drawing(s) filed on is/are: a)		-	•
	Applicant may not request that any objection to			
11)	Replacement drawing sheet(s) including the co The oath or declaration is objected to by the			
		c Examiner. Note the attached	TOTICE ACTION OF TOTIL P TO-132.	•
	inder 35 U.S.C. § 119			
_	Acknowledgment is made of a claim for fore ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docum		119(a)-(d) or (f).	
	2. Certified copies of the priority document o		onlication No	
	3. Copies of the certified copies of the			
	application from the International Bu			
* S	see the attached detailed Office action for a	7 77	received.	
Attachment	` '			
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413))/Mail Date	
3) 🔲 Inforn	nation Disclosure Statement(s) (PTO-1449 or PTO/SB No(s)/Mail Date		formal Patent Application (PTO-152)	

DETAILED ACTION

1. Amendment filed 5/19/05 has been entered. Claims 39-47 and 49-51 are pending and under examination in this office action. The text of those sections of Title 35, U.S. Code, not included in this action can be found in a prior office action.

Claim Rejections Maintained

2. The rejection of claims 39-47 and 49-51 under 35 U.S.C. 112, first paragraph, as lacking enablement is maintained for reasons of record in the office actions of 12/23/05, 4/28/04 and 11/26/03.

Applicants argue that the MLR assay is a well accepted and useful assay for identifying immunostimulants and is a widely used proliferative assay of T-cell function and can identify agents that can boost the immune system. Dr. Fong points to IL-12 as such a stimulant and states that a PRO polypeptide that stimulates T-cell proliferation with an activity "at least 180% of control" would find practical utility as an immune stimulant. Applicants submit that PRO335, contributes to stimulating the cellular responses (cellular immunity) rather than the humoral responses, of the immune system and therefore, is not directed to any "particular antigen". Applicant further argues the MLR assay is useful for detecting immunostimulatory activities of molecules like PRO335.

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Applicants' arguments have been fully considered but have not been found to be persuasive. No "particular antigen" is identified in the specification; there is no guidance as to how PRO335 could be used to boost the response to any antigen. Current Protocols in Immunology states on p. 3.12.11 that the MLR "only detects dividing cells instead of measuring true effector T-cell function" and that it is "not clear which T cell function is measured in proliferative assays", and further that "the proliferative response should be used solely as a general indicators of T cell reactivity". Data obtained might variously reflect proliferation of CTL, lymphokine producing T cells, or non-activated bystander cells and will be severely affected by the function of non-T cells. Differences in responsiveness in a proliferative assay in part reflect differences in IL-2 production. according to Current Protocols in Immunology. As has been stated previously, the MLR measures the reactivity of one individual to another and is, as Current Protocols in Immunology states, highly variable. Current Protocols in Immunology in fact describes many variables that must be controlled for. In the instant application, no such controls, such as for maximum response or for the inherent variability of individual responses, are provided. There is no indication of the statistical significance of the results. There are no autologous controls. No correlation is provided to any particular in vivo function; there is no guidance to indicate that PRO335 could be used to any therapeutic effect for the treatment of diseases such as cancer or HIV. The references cited by Applicant fail to provide compensatory guidance. Steinman and Thurner et al. (see previous office action) address the utility of dendritic cells but not of a stimulatory MLR. Gubler see previous office action) describes the identification of the molecule IL-12 but uses the

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MLR merely to compare activities, not as the basis for describing a molecule as a therapeutically useful immunostimulant. The subsequent research of Peterson et al. (see previous office action) was clearly required to suggest that the molecule could be used in this fashion. Thus, without further guidance correlating the observed stimulatory activity to a particular, useful property, it would require undue experimentation to use PRO335.

NO CLAIM IS ALLOWED.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nirmal S. Basi whose telephone number is 571-272-0868. The examiner can normally be reached on 9:00 AM-5:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony C. Caputa can be reached on 571-272-0829. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nirmal S. Basi ART Unit 1646 8/8/05 JOSEPH MURPHY PATENT EXAMINER